Confirmation No. 9660

Art Unit: 1645

In the Claims

- 5 -

Please amend the claims as follows. Applicant submits a new complete claim set in which insertions and deletions in marked-up claims are indicated by underlining and strikeouts, respectively.

Please rewrite the claims, and add new claims, as indicated below:

- 1-36. (canceled)
- 37. (currently amended) A method of stimulating or enhancing a protective immune response to an antigen in a mammal; which method comprises co-administering to a mucosal surface of said mammal with the antigen an effective adjuvant amount of a non-toxic double mutant form of pertussis toxin, said antigen being one which elicits a protective immune response when co-administered with said effective adjuvant amount of <u>said</u> non-toxic double mutant form of pertussis toxin, <u>wherein said non-toxic double mutant form of pertussis toxin</u> comprises an S₁ sub unit containing an amino acid at position 129 which is other than glutamic acid and containing an amino acid at position 9 which is other than arginine.
- 38. (canceled)
- 39. (currently amended) A method according to claim $\underline{37}$ 38, wherein the amino acid at position 129 in the S₁ sub-unit is glycine. (/
- 40. (canceled)
- 41. (currently amended) A method according to claim <u>37</u> 40 wherein the amino acid at position 9 is lysine. \checkmark
- 42. (previously added) A method according to claim 37 wherein the antigen and the non-toxic form of pertussis toxin are administered intranasally.
- 43. (previously added) A method according to claim 37 wherein the antigen and the non-toxic double mutant form of pertussis toxin are administered at the same time.

Art Unit: 1645

- 44. (previously added) A method according to claim 43 wherein the antigen and the non-toxic double mutant form of pertussis toxin are present in admixture in a composition administered to the mammal.
- 45. (previously added) A method according to claim 37 wherein the antigen is selected from the group consisting of tetanus toxin C-fragment, and one or more immunogenic fragments thereof.
- 46. (currently amended) A method according to claim <u>37</u> 45 wherein the <u>antigen is</u> selected from the group consisting of FHA and P69.

47-54 (withdrawn) -

55. (new) A method according to claim 46 wherein both FHA and P69 are coadministered with the non-toxic double mutant form of pertussis toxin.